

## METHOD OF MAKING FLUORINATED PROPANES

5

### ABSTRACT OF THE DISCLOSURE

The invention provides a process for the manufacture of fluoropropanes, and more particularly, the manufacture of 1,1,1,3,3,3-hexafluoropropane (HFC-236fa) and 1,1,1,2,3,3,3-heptafluoropropane (HFC-227ea). The process utilizes 3-carbon by-products, i.e. waste material, from other commercial processes as raw material.  
10 The process also avoids the use of hexafluoropropane (HFP) as a reactant for making HFC-227ea, and is able to convert any three-carbon hydrocarbon (HC), hydrochlorofluorocarbon (HCFC), chlorofluorocarbon (CFC) compound or any halogenated propanes and produce high valued three-carbon hydrofluorocarbons  
15 (HFCs) at significantly lower cost than current commercial processes.